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MPEG-4 Systems: Overview[*1]

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Abstract

This paper gives an overview of Part 1 of ISO/IEC 14496 (MPEG-4 Systems). It first presents the objectives of the MPEG-4 activity. In the MPEG-1 and MPEG-2 standards, "Systems" referred only to overall architecture, multiplexing, and synchronization. In MPEG-4, in addition to these issues, the Systems part encompasses scene description, interactivity, content description, and programmability. The description of the MPEG-4 specification follows, starting from the general architecture up to the description of the individual MPEG-4 Systems tools. Finally, a conclusion describes the future extensions of the specification, as well as a comparison between the solutions provided by MPEG-4 Systems and some alternative technologies.

Author Keywords: APIs; Architecture; Audio-visual; Buffer management; Composition; Content description; Interactivity; MPEG-4 systems; Multiplex; Programmability; Scene description; Specification; Synchronization; Tools

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